

27 January

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An Inaugural Dissertation
on
Dropsy in the Cellular Membrane
by
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By this is meant a postural Collection of watery serum fluid in the cellular texture of the body - It usually commences with swelling of the feet and ankles, appearing at the close of the day, which for some time disappears in the morning - The texture is soft and inelastic, and when pressed upon with the finger the indentation remaining for some time, the skin becoming much paler than usual. Ascending gradually upwards, the swelling creases first the thighs, trunk and face - When it has become thus general, the viscera are affected in a similar way, producing difficulty of respiration by effusion into the cellular tissue of the lungs - The bowels in this disease are uniformly constipated, the skin dry and sometimes hot, the pulse febrile, small, and rapid, and there is in almost every case great thirst, the urine small in quantity, and usually deposits a reddish sediment - These symptoms speedily induce torpor, having first a slow fever - The serum now becomes deposited through the skin & raises it in blisters - If relief is not speedily obtained from these symptoms, the system soon sinks under hectic fever

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to the extent to the pathology of the disease much controversy has existed, and indeed the only point which at present seems fully established is that it arises from the destruction of the balance which naturally exists between exhalation and absorption - There is in perfect health a continual exhalation of a watery fluid in the various cavities of the body which serves the purpose of lubrication after which end is attained, it is constantly removed by the absorbtion. Diopical effusions thence, it becomes evident, must arise, either from an excess of effusion, or from a decay of the power of absorbtion - As our belief in the one or the other most materially influences our practice, It would be a very desirable thing for this point to be settled - The European writers believe that it depends, altogether upon debility and relaxation of the system & consequently place confidence principally in Tonics, medicines, but their want of success is a sufficient refutation of this opinion - The Practitioners ^{of the country} perhaps have gone too far on the other hand, their remedies being almost entirely depletory - In all probability it exists in either state of the system, and we should at all times be on the alert to detect the one or the

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In the treatment of this disease the indications are

1st. To evacuate the water already collected.

2^d. To effect a Change in the System which causes the effusion.

And first of the disease as connected with high action - It is fortunate that the remedies which reduce arterial action, invigorate absorption. These two Systems acting in an inverse ratio - The practitioners of this Country proceed on this principle & bleed in this particular species of the disease - but it must be used with discretion - and to justify this remedy, the pulse should be hard, tense, and corded, and the blood when drawn exhibit the signs of high inflammation - with other usual signs of inflammation - Emetics from their great efficacy in promoting absorption, might be supposed well suited to this disease, but they have now given way to purgatives, and ^{are} never resorted to except to clear the Stomach of its offending contents -

Purgatives, in this disease, are beneficial not only as increasing the discharge of water, but also as one of our best means of overruling high arterial action, & relieving constipation.

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The question next arises, how frequently is their repetition demanded? It was the practice of Sydenham to prescribe them daily until the debilitated state of the patient should forbid their use. This must be esteemed generally a correct rule; for it is only by their frequent repetition that we can expect much permanent benefit. In the selection of the appropriate purgative, some discernment is necessary.

The drastic purgatives, by many have much used, particularly the older writers, with a view to their hydrogogue power; but in the inflammatory stage I hold them, as inadmissible. How much benefit may be expected from the saline purgatives, particularly the Sassafras, Selsip, in combination with Jalap, given in doses of $\frac{1}{2}$ or $\frac{3}{4}$ ij of the former with X or XV grains of the latter repeated sufficiently frequent to keep up a continual diarrhoea - By this remedy prescribed as above directed the disease has frequently yielded in a few days. The above remedies, although they frequently fail of curing the disease, generally produce a sufficient reduction of excitement. Our next remedies should be directed

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to the Symptomatic System. Of all the Diuretics the one best suited to the particular stage of the disease I am now considering the soft Tart. Potash is best suited - This has long had the Confidence of Practitioners, and every day's experience I believe tends to confirm the Confidence placed in it. Its operation as a Diuretic is much influenced by the quantity of water with which it is given - Given without much drink it seldom fails to purge off by stool. The Vegetable and mineral Alkalies with the same view have by some been extolled & by others condemned

With respect to their mode of operation some difference of opinion exists. Cullen believed their diuretic power depended upon their meeting with an acid in the Stomach forming an acetate. Were this true, the Acetate of Potash would be preferable and decidedly more uniform and active in its operation as a Diuretic, which I believe is contrary to the experience of Practitioners generally. The Cases, in which the Alkalies are beneficial, are when there is much debility in the organs of digestion, as frequently happening in habitual drunkards - And in those Cases attended with great acidity of the Stomach

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which produces very distressing effects — I Should not omit
here to mention a fact which I believe originated with
Sir John Pringle, that by combining the Alkalies with a
Tonic we greatly increase their power. Thus constituted they
not only act as a diuretic, but impart tone to the system
generally — The next remedy I shall speak of is the Alkaline
Potash — As a Diuretic it is inferior to most articles of the
Clype, but its great efficacy arises from the power it has over
the arterial system & to Drapier attended with high arterial
action it is eminently adapted — The great objection to its use
is that it cannot be given in sufficient doses & continued for
any length of time without producing considerable distress of
Stomach nausea &c — this objection we are told by the Drapier
of the practice may be overcome by administering the medicine
in large quantities of water — As a substitute the diluted
spirit of Nitre may be used — this has not the confidence of
Practitioners generally, which proceeds in all probability from
their prescribing it in too small doses instead of 40 or 50
drops it should be given in doses of half a peck repeated as far as

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frequently as necessary - say three or four times a day.

Of the mild native Vegetable diuretics, I shall only mention one - viz: the Common Dandelion - this possesses very considerable diuretic properties, & we have ^{been} told by Dr. Chapman that he succeeded in curing a case with this remedy, after all others had failed. As his article can be obtained without cost this fact should be recollecte^d particularly in poor practice.

The following formula, which we should not suppose, was discovered accidentally, by Dr. Chapman & is due to possess very powerful diuretic properties, viz:

1 lb. Finest Opium 12 oz.

Date: Sept: 1st. 1847

Age: Nine Years - 90 lbs.

To the above remark it was my intention to have dismissed the Vegetable diuretics, but the Daffodil, claiming some consideration, it is I believe rising in reputation both in this Country & in Europe - It is given in infusion or in extract -

The chronic stage of the disease next demands our attention - here when Constipation is present, the drastic purgatives,

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very well, and
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demands, and
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States. I go
Montgomery, &c.
Dab., &c. Tel. &c.
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a house is Dijon
double reputation in
& the Seminary, etc.
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and my next or second choice
is still upon the same track
as before, but I feel more and
more that we ought to have
an independent branch of our
own, and that we ought to have
no such Board as exists in a city of
such size, and in a position. Besides it would be a
good place to have a library of
several thousand volumes, and
for a school where we could
have all kinds of
mathematical, and
natural science
and other subjects
and it is also interesting to have
a library in a large enough
house to contain a collection of
books, and to teach in comfort and
convenience.

although inadmissible in the inflammable Stage become necessary
 The purgatives here demanded are Calomel with Sambogo -
 also the Colchicum Autumnale - Scammony, Elatiorum Lg -
 Notwithstanding what has been said in opposition to their use
 owing to the very great torpor of the Alimentary Canal they
 are demanded, and are of great utility - less irritating purgatives
 proving of no avail - The following formula has been found
 of great utility in the practice of the Army house in the Stage
 of the disease (Cf.)

P. Elatio. 1 gr. One Sixteenth to be given in a Somato.
 Sambogo 4. A quantity of water every hour until
 20. Date. 16. Nat. Lg. Copious watery evacuations are produced

The next Article of which I shall speak in the Stage
 of the disease is Digitalis - This Article maintains a very con-
 siderable Reputation in this disease - by some it is extolled above
 all other Remedies, while others condemn it as wholly ineffectual,
 This difference of Opinion proceeds in all probability from
 their prescribing in different States of the System - As a general
 rule I think it will never prove beneficial so long as the System

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will bear with impunity evacuations either by bleeding or purging.

I come now to speak of one of the most important, and certain of our diuretics viz. the Sennill. There is no form of Drapery in which it is not useful. It is usually given in combination with Calomel in the proportion of 2 grs of the former with one of the latter; two or three times a day.

Should in the progress of the disease a cachectic and depraved condition of the system arise, the more stimulating articles are demanded. In such a case the Cathartics may prove beneficial from their known power of producing Diuresis. They may be thought of doubtful efficacy, but it is evident in excited states of the system that they have this effect and in the particular state of the system now under consideration they possess a powerful and efficacious Diuretic. It is given in tincture in doses of from 20 to 100 drops repeated, pro re natae. Under similar circumstances the spirits of a Peruvian might be supposed useful. I do not know that any trials sufficient to establish its efficacy have been made. It is here that the Polygona Siccata may be used.

On a road to the village of
Cochimie, we stopped at a small
crossing place in the river bed in which
the people had dug a hole down through
the sand and rock to get water.
The water was very stagnant in pools
and it made us sick. There were
several dead bodies floating in the water
and many dead animals.
The water was very stagnant in pools
and it made us sick. There were
several dead bodies floating in the water
and many dead animals.

From its stimulating and diaphoretic properties, and also from its fluid and pervading influence on every part of the system more especially the Lymphatic, I should suppose it preferable to all other remedies but such I believe is not the estimation in which it is generally held.

^{Dr.} Diaphoretics are also occasionally resorted to in this disease. They have been employed both in this Country and in Europe with sufficient success to warrant their occasional use. One case of this disease, ⁱⁿ speedily and effectually cured by the liberal use of Dover's powder is mentioned Dr. Chapman in his Therapeutics, as occurring in his own practice.

Various modes for producing diaphoresis by external applications have been advised, none of which I shall mention, as I believe ^{them} less efficacious than combinations of Opium & Siccus. I Calomel gives intervals.

When this disease is kept up by Viseral Disease no one would think of withholding the use of mercury & here as previously mentioned it may be beneficial combined with Squills. I also with Digitalis.

In those Cases of Dropsey attended with diminished absorption, Mercury is likewise admirably suited. It should under such circumstances not be overlooked. But in the Common forms of Dropsey it will not in any way promote the Case and may do injury.

The Local means usually resorted to in Cases of excrevisc in Cases of ~~an~~ expulsive distention are incisions, & punctures, & blisters.

In the use of these remedies particularly to the last mentioned Considerable objections exist. Gangrene and mortifications has been known to follow particularly blisters.

Left objections exists as to the use of punctures, great Care Should be taken not to wound parts much beneath the Skin, from inattention to this circumstance. Excessive inflammation, and all the Consequences so much to be dreaded from the use of blisters has resulted. Much benefit may be derived from the use of the roller, it proves beneficial by giving support to the weakened & relaxed Nephros.

To prevent the recurrence of obnoxious like may resort to the roller as above, it should be made of flannel

The Gold bath, has been recommended, but I think generally of doubtful efficacy, and may frequently prove injurious.

The most effectual plan is the abstinence of Tonics of those the Bark and Chalkites are perhaps preferable - Exercise judiciously employed should not be overlooked - with respect to the diet it should be nourishing and at the same time easy of digestion - Should the disease still show a strong disposition to return we should produce a total change in the system by the judicious administration of Mercury presented merely with a view to its alterative effects. D

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giving birth to human children but I
have not found any account of any
other well known to us by name which
would supply any such a title as this.
The term "child" is used in this place
generally, so as to include all the
children of both sexes, as well as
adults, and it is used in this place
generally, and in this place.